

49:41 1 you've got three already.

49:41 2 A. The symptoms.

49:41 3 Q. Symptoms.

49:43 4 A. Now the signs. We need two of the  
49:48 5 categories for signs. And look at my exam. Yes.

50:01 6 Some swelling noted in the right dorsal forearm. So  
50:03 7 that's pseudomotor edema, positive edema or swelling  
50:09 8 on the exam.

50:14 9 Then I say subtle skin changes on my exam.  
50:19 10 That's the vasomotor sign. And the tenderness I  
50:31 11 would call with the hyperalgesia would be one of  
50:35 12 them. You need only two. So she has two of the  
50:38 13 signs already.

50:39 14 MR. KRAEUTER: Two or three?

50:40 15 THE WITNESS: She has definitely two. Two  
50:42 16 is necessary for a diagnosis. She has, from my  
50:45 17 exam, reports of skin changes, asymmetry with  
50:50 18 edema. So she has two signs that I need. And  
50:58 19 then the last criteria, of course, there's no  
51:02 20 diagnosis that better explains the signs and  
51:04 21 symptoms.

51:04 22 Q. (By Mr. Meader) Okay. Well, let's talk  
51:06 23 about that.

51:06 24 A. Yeah.

51:07 25 Q. So there was -- let's get back. We went

51:13 1 through a list of things here that was in this  
51:16 2 article. Did you do a full blood count?

51:28 3 A. No.

51:28 4 Q. Did you do a C reactive protein?

51:31 5 A. No.

51:31 6 Q. Did you do an erythrocyte sedimentation  
51:36 7 rate?

51:36 8 A. No.

51:37 9 Q. Sero autoantibody?

51:38 10 A. No.

51:39 11 Q. What about cellulitis or arthritis?

51:49 12 A. Cellulitis was per my clinical judgment  
51:53 13 not present. Cellulitis means, in layman's terms, an  
51:58 14 infection of the skin.

51:59 15 Q. Okay. Arthritis?

52:01 16 A. Arthritis would be No. 1. Typically, you  
52:09 17 know, she has seen two orthopedic specialists before.  
52:14 18 She had X-rays done. And also arthritis in the  
52:16 19 forearm. There's no choice in the forearm, in that  
52:22 20 area, in the midforearm. So arthritis could be at  
52:24 21 the wrist joint, at the fingers or at the elbow. But  
52:28 22 arthritis is not account for the findings in my exam.

52:33 23 Q. Okay. Did you do any duplex scanning?

52:37 24 A. I did not.

52:38 25 Q. To exclude a deep vein thrombosis?

52:41 1 A. I did not. I clinically did not feel that  
52:43 2 I had a suspicion based on the presentation in the  
52:46 3 exam and the time line of the symptoms.

52:48 4 Q. Okay. Why is that?

52:50 5 A. With a blood clot in the upper extremity,  
53:02 6 I would expect typically that there is either a  
53:14 7 different type of pain with it. It just clinically  
53:17 8 did not sound -- No. 1, it's rare to have upper  
53:20 9 extremity blood clots. She's had the symptoms for  
53:27 10 half a year. I just clinically did not feel there  
53:34 11 was a DVT present.

53:36 12 Q. Any other reasons as to why you felt there  
53:39 13 was not a DVT present? Or is that it?

53:43 14 A. The typical DVTs in the upper extremity  
53:46 15 are more in the arm area, upper arm area. Not in the  
53:56 16 forearm area.

53:56 17 Q. Okay. So there was an EMG done?

54:06 18 A. The patient had an EMG and a nerve  
54:09 19 conduction study done at an off-site facility prior  
54:13 20 to seeing me, yes.

54:15 21 Q. And an MRI was done as well?

54:18 22 A. I believe she had already two MRIs when  
54:23 23 she came to me. One of the right upper extremity and  
54:25 24 one of the cervical spine.

54:25 25 Q. Okay. Now, a thermograph was not used?

54:27 1 A. No.

54:28 2 Q. Do you have a thermograph?

54:31 3 A. No.

54:41 4 Q. And there was no duplex ultrasound being  
54:45 5 done?

54:45 6 A. No.

54:45 7 Q. But in looking at this and looking at your  
55:00 8 notes, it looks like at this time you did not  
55:05 9 diagnose her with CRPS. And I'm just reading from  
55:10 10 your note under assessment, it says, second sentence,  
55:13 11 "She may be suffering from CRPS type of syndrome  
55:22 12 status post a door frame falling on her forearm in  
55:23 13 April of 2015."

55:24 14 A. Correct.

55:25 15 Q. So my take it on was at that point in  
55:27 16 time, you were not convinced that it was CRPS?

55:31 17 A. No. At that point in time, I was just  
55:37 18 going to make sure there's not anything else going  
55:40 19 on, excluding any other factors or any other reasons  
55:44 20 that she could have that and just get an overall  
55:48 21 picture as well. I just didn't want her labeled with  
55:51 22 CRPS immediately. I just wanted to make sure that  
55:58 23 there's nothing else that would explain this.

55:59 24 Q. But you did not tell her at that point in  
56:03 25 time that you thought she had CRPS?

56:06 1 A. I told her, yes. I told her that it might  
56:10 2 be CRPS.

56:18 3 Q. But at that time, it sounds like you  
56:21 4 weren't convinced that's what it was?

56:24 5 A. It's not that I wasn't convinced. It's  
56:26 6 just that sometimes with CRPS, you have several  
56:33 7 clinic visits.

56:34 8 Q. Uh-huh.

56:34 9 A. And not only one-time visit.

56:36 10 Q. Okay. So -- I'm sorry.

56:37 11 A. And you just, when they excluded is there  
56:44 12 anything else going on, could there be something  
56:44 13 different. Due diligence is the medical standard.  
56:48 14 And I did not feel I wanted to label her my first  
56:52 15 visit with CRPS because CRPS is a diagnosis of  
56:57 16 exclusion.

56:58 17 Q. So at that point in time, at least, you  
57:00 18 weren't comfortable diagnosing her with CRPS because  
57:04 19 you were still doing your due diligence and ruling  
57:09 20 out other things. Is that what I'm hearing?

57:13 21 A. I was doing my due diligence, correct, and  
57:14 22 did not want to label her with having CRPS; correct.

57:14 23 Q. Okay. But you had --

57:15 24 A. Not the diagnosis of CRPS; correct.

57:17 25 Q. You had not diagnosed her with CRPS at

57:21 1 that point in time, it sounds like. It sounds like,  
57:22 2 correct me if I'm wrong, but it sounds like you  
57:26 3 wanted to do more due diligence, maybe see her again  
57:26 4 before you said or labeled her with CRPS?

57:33 5 MR. KRAEUTER: Objection to form.

57:35 6 A. It looked like CRPS to me. It felt like  
57:41 7 CRPS to me. I just met her for the first time and I  
57:47 8 did feel that see her back, let's go over this again  
57:53 9 and let's find out if there's anything else that  
57:56 10 could be causing this.

57:57 11 I did not, I did not on 10/27/16 go over  
58:04 12 the form with her or even in my note. I did not  
58:08 13 count up if this CRPS or not because at that moment,  
58:16 14 I just wanted to see what we can do. And looking  
58:20 15 back, she fulfilled the criteria on her first visit  
58:28 16 already, but I didn't calculate all the criteria.

58:32 17 So I did not say you have CRPS, I'm  
58:36 18 classifying you with CRPS. I did not say, oh, you do  
58:36 19 not have CRPS. This was just the initial visit for  
58:48 20 evaluation and I did not want to put a label on her,  
58:49 21 okay, this is CRPS.

58:51 22 Q. Also, on 10/27 of 2015, you did not  
58:59 23 diagnose her with CRPS?

59:00 24 MR. KRAEUTER: Object to form.

59:02 25 A. I diagnosed her with --

59:05 1 Q. (By Mr. Meader) I understand that going  
59:06 2 back in hindsight --

59:07 3 A. No, no, no. I diagnosed her with a she  
59:09 4 may be suffering from CRPS type of syndrome.

59:13 5 Q. But you did not diagnose her with CRPS;  
59:16 6 correct?

59:18 7 MR. KRAEUTER: Object to the form.

59:19 8 A. I believe that's a -- it's a semantic  
59:28 9 difference that we're talking about.

59:31 10 Q. (By Mr. Meader) Well, what I'm getting at  
59:33 11 is the point in time -- because the records, they  
59:34 12 kind of speak for themselves here, but they -- you  
59:37 13 know, what I'm trying to go to is when you say  
59:41 14 diagnose, when you say, hey, this is CRPS. And here,  
59:44 15 your words are that she may be suffering from CRPS  
59:47 16 type of syndrome. It doesn't say diagnosis and plan,  
59:53 17 CRPS Type 1. It doesn't say that.

59:57 18 And what I'm trying to get to, I guess, is  
00:00 19 we're talking about this sensitivity versus specific  
00:06 20 distinction earlier. And at this point in time,  
00:10 21 maybe you were still concerned, you know -- the  
00:10 22 sensitivity was satisfied. You have the 200 out of a  
00:14 23 thousand. You felt like maybe, you know, she had it,  
00:17 24 but you were worried about specificity at this point  
00:20 25 in time and not using a false positive. Is that what

00:25 1 you were trying to say?

00:26 2 MR. KRAEUTER: Object to form.

00:26 3 A. No. I didn't think it -- the way you're  
00:30 4 saying is no. I just -- I did not think what  
00:35 5 sensitivity was specificity at that moment. The  
00:45 6 point was to just get an overall feel for the  
00:51 7 evaluation for the impression. The treatment I  
00:52 8 proposed was like it is for CRPS. So I've been down  
01:01 9 the pathway. And I just also wanted to clarify with  
01:03 10 myself is there anything that we're missing.

01:05 11 Q. What could that have been? What other  
01:07 12 kinds of things were you worried, I guess, you could  
01:13 13 have been missing?

01:13 14 A. Well, could there be anything in the  
01:15 15 neurologic system going on. For example, because she  
01:28 16 did report some neurological systems as well that I  
01:34 17 do not see frequently associated with CRPS.

01:38 18 Q. Have you ever seen those associated with  
01:41 19 CRPS?

01:41 20 A. No. I've seen patients report symptoms  
01:45 21 that are -- that don't fit the picture and so they  
01:49 22 might be a separate entity. There might be something  
01:55 23 different that has nothing to do with the CRPS. A  
02:00 24 lot of times patients with CRPS have some other  
02:00 25 symptoms that are not part of the CRPS and are still



02:08 1 present. So I just want to make sure that there is  
02:10 2 nothing else going on.

02:10 3 Q. Okay.

02:11 4 MR. KRAEUTER: We've been going about two  
02:13 5 hours. Can we take a little break?

02:14 6 MR. MEADER: Oh, yeah, sure, yeah. That's  
02:17 7 fine.

02:18 8 (Recess from 6:18 p.m. to 6:23 p.m.)

07:13 9 Q. (By Mr. Meader) All right. Did you test  
07:17 10 her grip strength at all in your examination?

07:20 11 A. I did not. I don't think I reported it in  
07:32 12 my note. I can't say. I'm sure I asked her to just  
07:43 13 make a fist with my finger in it to see, but I did  
07:48 14 not document it.

07:49 15 Q. Okay. Now, let's talk about the  
07:55 16 medications.

07:56 17 A. Sure.

07:56 18 Q. You went over her medications, what she  
07:59 19 was taking. And I think you may have prescribed  
08:02 20 something new?

08:03 21 A. Yes.

08:03 22 Q. Just kind of take me through all that in  
08:05 23 your own words, if you wouldn't mind.

08:07 24 A. Okay. Okay. I switched her over -- well,  
08:22 25 I continued her on the gabapentin that she was

08:25 1 already on for neuropathic-type pain. I added on  
08:29 2 Cymbalta at 30 milligrams. It was supposedly for two  
08:35 3 weeks, and then I wanted her to increase to 60  
08:38 4 milligrams.

08:39 5 And I switched her from hydrocodone to the  
08:44 6 Percocet, which is the oxycodone, since I believe she  
08:48 7 told me that that worked better before. She had some  
08:53 8 benefits of the hydrocodone before, yes.

08:57 9 And I started her on Meloxicam, 5  
09:02 10 milligrams once a day. And she was on Ibuprofen 800  
09:09 11 milligrams on and off since April.

09:11 12 Q. All right. So the Cymbalta, is there a  
09:18 13 generic Cymbalta?

09:19 14 A. Yes.

09:20 15 Q. Okay.

09:23 16 A. Called duloxetine.

09:26 17 Q. Okay. So the 30 milligrams, is that the  
09:29 18 smallest dosage that that comes in?

09:30 19 A. It comes in 20 milligrams, 30 milligrams  
09:34 20 and 60 milligrams.

09:35 21 Q. What is that designed to treat, the  
09:39 22 Cymbalta?

09:39 23 A. Cymbalta has a lot of indications. Most  
09:44 24 people know it as an antidepressant. When it was  
09:47 25 still brand name, it was very heavy promoted on TV

09:50 1 for depression. It is indicated for fibromyalgia.  
09:56 2 It is indicated for anxiety. It is indicated for  
09:59 3 diabetic neuropathy. And I gave to her for  
10:05 4 neuropathic pain.

10:06 5 Q. In layman's terms, what's neuropathic  
10:11 6 pain?

10:11 7 A. Burning, tingling, sharp, electric  
10:17 8 shock-type type pain.

10:17 9 Q. Do depression and pain kind of go  
10:20 10 hand-in-hand sometimes?

10:21 11 A. If someone has chronic pain, oftentimes  
10:29 12 they will develop depressive symptoms. If someone  
10:34 13 has depression, it does by no -- does not mean  
10:41 14 whatsoever that they develop chronic pain.

10:42 15 But to answer your question a different  
10:44 16 way, in chronic pain patients that develop depressive  
10:48 17 symptoms, it can be helpful to give them medication  
10:53 18 that treats the pain and treats depressive symptoms  
10:56 19 at the same time, which I tell patients, for me, I  
11:00 20 don't prescribe typically antidepressants. I use  
11:04 21 duloxetine for the neuropathic pain. And if it  
11:08 22 treats any depressive symptoms, it's an added benefit  
11:11 23 for me.

11:11 24 Q. Okay.

11:13 25 A. But for her it was not for any depression..

11:15 1 It was for the pain.

11:17 2 Q. So did she complain of any symptoms with  
11:21 3 the side of her face?

11:23 4 A. I believe she did. Let me see. I believe  
11:44 5 that I recall that she complained about that and I  
11:48 6 believe she wrote it on her review of systems.  
11:50 7 That's where it was. Facial pain, yes.

11:52 8 Q. Okay.

11:53 9 A. Numbness, mouth and lips.

11:55 10 Q. Is that the intake?

11:56 11 A. Yes. Review of systems intake sheet.

12:00 12 Q. It looks like she was next seen by  
12:18 13 Dr. Kamaleson on November 18th, and that's page 97.  
12:27 14 This guy over here.

12:42 15 A. Correct.

12:43 16 Q. Notes indicate that she was doing better  
12:52 17 and that she had taken the Cymbalta.

12:54 18 A. Yeah.

12:54 19 Q. Let's talk about that. She said she took  
12:57 20 one Cymbalta and had a GI side effect and then  
13:00 21 discontinued the medication. However, her symptoms  
13:03 22 improved significantly with the single dose of  
13:10 23 Cymbalta. Actually, we'll talk about that more in a  
13:13 24 moment because I think she discusses that with you as  
13:16 25 well --

13:16 1 A. Correct.

13:16 2 Q. -- about a week later. Okay. And it  
13:24 3 looks like he does a physical examination of the  
13:26 4 right upper extremity and the left upper extremity.  
13:28 5 And you'll agree with me that both right and left  
13:32 6 were the same?

13:32 7 A. Per his note; correct.

13:35 8 Q. Per his note, yeah. And that using the  
13:38 9 Budapest criteria, the notes here would not support a  
13:46 10 diagnosis of CRPS?

13:49 11 A. His note from 11/18; correct.

13:52 12 Q. So that you'll, I guess, agree with me  
14:15 13 that by that point in time, we had five visits to  
14:18 14 Optim, five between yourself and Dr. Kamaleson, and  
14:23 15 that only one of the five could have supported a  
14:27 16 possible CRPS diagnosis. And that was when you  
14:30 17 examined her and what we talked about a few moments  
14:34 18 ago?

14:37 19 A. Yes, correct. From October, yes.

14:41 20 Q. Okay. Then she comes and sees you on the  
14:45 21 23rd. Do you have that record?

14:47 22 A. Yes.

14:47 23 Q. Okay. And she talks about her experience  
14:52 24 with Cymbalta.

14:54 25 A. Yeah.

14:54 1 Q. Had you ever heard of that happening with  
14:56 2 any other of your patients where they take it one  
14:58 3 time and what it looks like is that the pain was  
15:03 4 almost completely gone, and this has lasted until  
15:07 5 now, which is almost a month, just shy of a month  
15:13 6 after she took it.

15:15 7 Have you ever heard of that kind of relief  
15:17 8 from one dose of Cymbalta?

15:18 9 A. No.

15:19 10 Q. What do you attribute that to?

15:26 11 A. I cannot explain that. She had a pretty  
15:31 12 dramatic side effect with it. I do know that when  
15:34 13 she came in, she was torn about trying probably  
15:41 14 another Cymbalta because she felt it was good  
15:43 15 benefit. She was torn about taking another one  
15:47 16 despite the side effects. But I cannot explain why  
15:51 17 she had the excellent benefit from using it one time  
15:54 18 in the evening. And it continued until I saw her  
16:00 19 again.

16:00 20 Q. And you've never seen anything like that  
16:02 21 since you've been practicing?

16:03 22 A. No. I do not recall that one tablet of  
16:08 23 Cymbalta caused that profound of an improvement the  
16:16 24 patients report.

16:17 25 Q. If she was making complaints of pain, I

16:22 1 think, if you go back through some of the PT stuff,  
16:25 2 and you can look at some of these notes where, you  
16:34 3 know, my take on it, correct me if I'm wrong, but she  
16:39 4 was complaining of very significant pain at each of  
16:41 5 the visits, you know, to yourself and with your, you  
16:45 6 know, visits to you or to Dr. Kamaleson?

16:47 7 A. Uh-huh.

16:48 8 Q. But at the same time she was unwilling to  
16:52 9 take another Cymbalta, which apparently resolved all  
16:55 10 of her pain almost completely because of some  
17:00 11 gastrointestinal issues?

17:01 12 A. Nausea, diarrhea, shakes, sweatiness. And  
17:07 13 the next day she felt horrible. And then the day  
17:10 14 afterwards, the pain was significantly better. I  
17:12 15 guess you -- from what she told me, she got benefit  
17:16 16 probably 20 minutes afterwards. Then felt horrible.  
17:19 17 And then the day after that benefit again.

17:22 18 Q. Okay.

17:23 19 A. So the question was if the Cymbalta that  
17:26 20 helped her or not. I cannot answer that.

17:29 21 Q. Is it possible to -- and I note that she  
17:32 22 didn't try the Cymbalta again. Would it have been an  
17:37 23 option to cut the Cymbalta dosage or have her take a  
17:41 24 half a pill --

17:41 25 A. No.

17:41 1 Q. -- and work it up --

17:41 2 A. No.

17:41 3 Q. -- over time?

17:41 4 A. No.

17:41 5 Q. Why is that?

17:42 6 A. Because the side effects, the way she  
17:44 7 described the side effects to me, precludes you from  
17:48 8 really recommending that again. I mean, it was not  
17:55 9 just I had some nausea. I mean, she had profound  
17:59 10 side effects. And, therefore, I did not recommend  
18:04 11 her to continue that.

18:05 12 Q. Now, you did a physical examination of  
18:18 13 her?

18:19 14 A. Yes.

18:20 15 Q. Now, it looks like there's no swelling  
18:26 16 that was noted?

18:27 17 A. Correct.

18:28 18 Q. If there had been any of these other  
18:30 19 criteria, skin changes, the hair, the fingernails,  
18:35 20 positive signs, would those have been included in  
18:39 21 your notes?

18:40 22 A. I can't answer that because I didn't write  
18:45 23 it down. I would assume if I see anything, I would  
18:51 24 have included it.

18:53 25 Q. That's your standard practice, I guess?



18:54 1 A. Yes.

18:55 2 Q. If you make a finding?

18:57 3 A. If you find anything abnormal, you would  
19:00 4 typically include it; correct.

19:01 5 Q. And none of those are included here?

19:04 6 A. Correct.

19:04 7 Q. Do you recall if she gave you any -- let  
19:11 8 me ask it a different way. Do you recall if you  
19:13 9 indicated the presence of any of the other signs on  
19:17 10 this day on November 23rd, 2015, and just didn't put  
19:20 11 them in your notes?

19:21 12 A. I don't recall.

19:21 13 Q. Okay. So as we sit here today and look at  
19:25 14 this record from November 23rd, the examination and  
19:30 15 the results of the examination contained in the notes  
19:34 16 and also including your personal recollection, does  
19:37 17 not support a CRPS diagnosis; is that correct?

19:46 18 MR. KRAEUTER: Object to the form.

19:51 19 A. Well, she was still under the working  
19:52 20 diagnosis of possible CRPS syndrome in my assessment.

19:58 21 Q. (By Mr. Meader) But none of the signs  
20:00 22 required for the diagnosis under the Budapest  
20:03 23 criteria were present; correct?

20:05 24 MR. KRAEUTER: Object to the form.

20:07 25 A. Well, I believe that with her report of

20:10 1 Cymbalta side effects, that took quite an amount of  
20:14 2 time to get through that and to discuss that. So I  
20:19 3 do not believe that a detailed all-inclusive exam was  
20:30 4 done. This was more a quick exam. And I think we  
20:40 5 discussed a lot about the Cymbalta with her.

20:43 6 Q. So did you examine her to see if there  
20:46 7 were any changes in her skin color, on her forearms?

20:49 8 A. I did the exam that I documented here. I  
20:54 9 cannot recall if I did any other exam.

20:55 10 Q. Okay. But as we sit here today and based  
21:00 11 on what's in these notes and based on what's in your  
21:03 12 personal recollection, you'll agree with me that the  
21:05 13 criteria necessary to satisfy a diagnosis of CRPS  
21:10 14 under the Budapest criteria are not satisfied?

21:14 15 MR. KRAEUTER: Object to the form.

21:15 16 A. They're satisfied from my 10/27 note  
21:17 17 already.

21:18 18 Q. (By Mr. Meader) From from your note and  
21:20 19 your memory; correct?

21:20 20 A. 10/27, yes.

21:22 21 Q. Yes. And, again, the note notes a  
21:34 22 possible CRPS-type syndrome status?

21:37 23 A. Yes.

21:38 24 MR. KRAEUTER: Object to the form.

21:46 25 Q. (By Mr. Meader) And so let's look at the

21:48 1 next one. It looks like she went back to

21:51 2 Dr. Kamaleson on December the 30th.

21:55 3 A. Do you have a page number?

21:56 4 Q. Yes. 96.

22:04 5 A. Correct.

22:04 6 Q. And it looks like the notes report right

22:07 7 upper extremity pain improved. She's doing better.

22:12 8 Still having occasional pain. Her symptoms are

22:15 9 overall improved significantly. And she's under your

22:19 10 care and the care of her primary care physician. It

22:23 11 looks like there's an examination done of her right

22:26 12 upper extremity. No swelling, edema or ecchymosis.

22:33 13 No tenderness. She's able to make a fist.

22:39 14 Using, you know, per notes, just what's on

22:44 15 the notes here, you'll agree with me that the

22:46 16 Budapest criteria are not satisfied supporting a

22:50 17 diagnosis of CRPS Type 1?

22:54 18 A. Dr. Kamaleson's note of 12/30/15; correct.

22:57 19 Q. Let's go to January 19th. This is when

23:14 20 she came back and saw you. And so it looks like you

23:36 21 performed an examination of her?

23:43 22 A. Correct.

23:43 23 Q. And you'll agree with me that -- let me

23:49 24 ask you this: Do you recall making any or observing

23:56 25 any signs which would indicate or support a diagnosis

24:01 1 of CRPS which are not included in your notes here  
24:06 2 under physical examination?

24:07 3 A. I don't recall any, anything different  
24:10 4 than what I wrote down.

24:11 5 Q. As we sit here today, you'll agree with me  
24:14 6 that what's contained in these notes, it's  
24:18 7 insufficient to support a diagnosis of CRPS under the  
24:23 8 Budapest criteria?

24:24 9 A. I disagree.

24:26 10 Q. Okay. Explain to me why.

24:28 11 A. You said what's contained in these notes.  
24:30 12 In my notes?

24:31 13 Q. I'm sorry. Just from this date. I'm  
24:35 14 sorry. From this date. Based on what you observed  
24:38 15 on this day.

24:39 16 A. I didn't think the Budapest criteria have  
24:43 17 to be present always in every single note.

24:47 18 Q. How often do the Budapest criteria need to  
24:51 19 be present?

24:51 20 A. I believe, for example, that the swelling  
24:58 21 is present at some time. I think that's the --  
25:00 22 actually the exact phrase that is used somewhere,  
25:03 23 appearance of swelling at some time in point, for  
25:06 24 example. So it doesn't mean that the swelling all  
25:09 25 the time.

25:11 1 Q. Well, swelling can be caused by things  
25:19 2 besides CRPS; correct?

25:20 3 A. Correct.

25:20 4 Q. Okay. Let's go back to my question and  
25:25 5 then we can come back kind of where you were going  
25:27 6 with your answer there. But you'll agree with me  
25:30 7 here that in your notes and also based on, you know,  
25:34 8 your recollection of this examination, January 19th,  
25:37 9 2016, just based on what's on the notes, there's no  
25:42 10 report of or, you know, what's contained in there  
25:49 11 doesn't support a diagnosis of CRPS under the  
25:51 12 Budapest criteria?

25:53 13 MR. KRAEUTER: Objection to form.

25:55 14 A. The note from 1/19/2016 in isolation by  
26:00 15 itself from the exam doesn't support it; correct.

26:04 16 Q. (By Mr. Meader) Okay. And the symptoms  
26:20 17 that were -- let me ask it this way: There were  
26:24 18 insufficient signs present on January 19th, 2016, to  
26:28 19 support a diagnosis of CRPS; correct?

26:33 20 MR. KRAEUTER: Object to the form.

26:39 21 A. I don't think I can say that. I can say  
26:41 22 that I did not examine everything based on the  
26:43 23 criteria. I mean, I examined what's in there, but I  
26:47 24 didn't examine for the Budapest criteria by itself.  
26:55 25 So it's an insufficient exam to make a determination

27:00 1 by itself.

27:00 2 Q. (By Mr. Meader) So this exam and the exam  
27:04 3 from 11/23, you didn't examine her to determine  
27:08 4 whether or not she had all of the signs present to  
27:12 5 support a CRPS diagnosis?

27:15 6 MR. KRAEUTER: Object to the form.

27:21 7 A. I believe the first two visits were done  
27:28 8 to see how she responded to treatment. One visit was  
27:33 9 to discuss the side effects from the Cymbalta, which  
27:36 10 was a major point and a main point of that visit.  
27:41 11 And this visit was to discuss some other changes that  
27:48 12 she reported.

27:50 13 So I do not believe that I focused only on  
27:54 14 the CRPS on that visit. I focused more that she also  
27:57 15 had some eye problems and right-sided facial  
28:03 16 problems. And this visit was more centered around  
28:09 17 that.

28:09 18 Q. Okay.

28:09 19 A. Correct.

28:10 20 Q. So you did not examine her to determine  
28:16 21 whether or not the signs of CRPS were present at the  
28:20 22 November 23rd and the January 19th visits; correct?

28:23 23 MR. KRAEUTER: Object to the form.

28:25 24 A. I did not examine her specifically only  
28:27 25 for that; correct.

28:28 1 Q. (By Mr. Meader) You did not examine her at  
28:30 2 all for that; correct?

28:31 3 MR. KRAEUTER: Object to the form.

28:32 4 A. I examined her.

28:39 5 Q. (By Mr. Meader) But you didn't either look  
28:41 6 for the signs or you looked for them and did not note  
28:44 7 them; right?

28:46 8 MR. KRAEUTER: Object to the form.

28:47 9 A. Well, other things were talked about in  
28:53 10 those two exams, in those two encounters.

28:58 11 Q. (By Mr. Meader) I understand that.

28:59 12 A. That is correct, yes.

29:00 13 Q. Okay. So then you'll agree with me that  
29:18 14 by this point, we had one, two, three, four, five,  
29:26 15 six, this was the seventh visit to Optim and only  
29:31 16 one, one out of the seven visits were the signs and  
29:38 17 symptoms necessary to support a diagnosis of CRPS  
29:45 18 observed?

29:46 19 MR. KRAEUTER: Object to the form.

29:48 20 A. I will talk to my notes. One of the three  
29:51 21 visits is documented the signs and symptoms necessary  
29:55 22 to diagnose CRPS.

30:02 23 Q. (By Mr. Meader) In your notes. Fair  
30:03 24 enough. Right. Okay. I've got 3/22. Now, this is  
30:29 25 after you met with plaintiff's counsel; correct?

30:34 1 A. I believe that's correct. I believe the  
30:39 2 meeting was mid or early March, I believe.

30:41 3 Q. And do you remember what was discussed at  
30:45 4 that meeting?

30:46 5 A. Which meeting?

30:47 6 Q. With plaintiff's counsel.

30:52 7 A. I believe that was the meeting when, I  
31:07 8 think it was at the Derenne office and I believe that  
31:14 9 it was discussed, of course, with the lawyers  
31:15 10 involved that there's a legal case going on. Yes.

31:23 11 Q. Was this the meeting where you were  
31:27 12 brought the additional articles about CRPS?

31:28 13 A. Let me think. It might have been. I'm  
31:47 14 not sure. I don't know if I got them the first  
31:50 15 visit. I don't recall.

31:52 16 Q. Okay. It sounds like the meeting lasted  
31:55 17 for an hour?

31:55 18 A. The first meeting with counsel?

31:58 19 Q. Yes.

31:59 20 A. I thought it was 30 minutes. Was it an  
32:02 21 hour?

32:03 22 MR. KRAEUTER: I can't answer.

32:04 23 MR. MEADER: He can't answer.

32:06 24 A. I cannot answer that.

32:07 25 Q. (By Mr. Meader) Maybe we can look at the



32:09 1 billing.

32:09 2 A. No, it's not in there.

32:11 3 Q. If it was \$1500, would it have been 1500  
32:14 4 for 30 minutes or an hour?

32:15 5 A. Anything between 30 minutes and an hour.

32:19 6 Q. Is \$1500?

32:20 7 A. I think. I believe the billing, I believe  
32:21 8 the billing is 30 minutes at \$750 and one hour is  
32:26 9 \$1500 up to one hour.

32:28 10 Q. I got it. Okay. So do you remember the  
32:34 11 substance of that conversation at all?

32:35 12 A. Of the meeting?

32:37 13 Q. Yes.

32:38 14 A. There was a legal case going on. I think  
32:45 15 that Mr. Krauter was doing some fact-finding.  
32:54 16 That's what I recall.

32:54 17 Q. And this may have been when you were  
33:00 18 provided with additional articles about it? You  
33:02 19 think it was this meeting? How many meetings were  
33:04 20 there? Was there just that one?

33:06 21 A. I believe there was two meetings, yeah.  
33:10 22 Two meetings. Two.

33:11 23 Q. When was the last one?

33:12 24 A. Give me a second. Can I look at my cell  
33:25 25 phone?

33:25 1 Q. Sure.

33:26 2 A. I might have written it down. I know it  
33:31 3 was on a Wednesday morning, the first meeting. The  
33:49 4 first meeting was on March 2nd, 10 a.m., I believe.  
33:53 5 We know that. Let's see about another one. March  
34:00 6 2nd. And then the second meeting might have been on  
34:10 7 March 16. So it might be there was two meetings  
34:14 8 before that.

34:14 9 And I believe -- let me see if there are  
34:21 10 other meetings. I believe those were the two  
34:35 11 meetings face-to-face. Yes. And I do not recall the  
34:45 12 first meeting was half an hour or one hour. I don't  
34:47 13 know.

34:47 14 Q. Okay. Do you remember what the need was  
34:51 15 for the second meeting or why?

34:53 16 A. I believe the second meeting, he asked me  
34:59 17 to produce a report, a summary that you have in front  
35:05 18 of you. I think that was the second meeting.

35:08 19 Q. To talk about the expert report?

35:10 20 A. Yes. Correct.

35:11 21 Q. And then is that something that you  
35:14 22 drafted?

35:15 23 A. Yes.

35:15 24 Q. Or who drafted that?

35:17 25 A. I did. I went through my notes and

35:22 1 produced that.

35:23 2 Q. That's the roughly --

35:27 3 A. So I would believe I got the articles  
35:29 4 probably in the first meeting.

35:32 5 Q. That would make sense. All right. Let's  
35:49 6 go back through your notes from the March 22nd --

35:52 7 A. Yeah.

35:53 8 Q. -- visit. It looks like you performed a  
35:57 9 physical examination?

35:58 10 A. Yes.

36:01 11 Q. It looks like there was no clear  
36:09 12 full-blown allodynia noted. No clear hair pattern  
36:13 13 changes or skin changes or swelling or edema.

36:16 14 A. Correct.

36:17 15 Q. Now, you'll agree with me that based on  
36:30 16 the signs or absence thereof, this examination does  
36:35 17 not support a diagnosis of CRPS under the Budapest  
36:40 18 criteria?

36:40 19 MR. KRAEUTER: Object to the form.

36:44 20 A. Correct. This would not by itself fulfill  
38:02 21 the sign for CRPS.

38:06 22 Q. (By Mr. Meader) And would not support a  
38:09 23 CRPS diagnosis; correct?

38:10 24 MR. KRAEUTER: Object to the form.

38:11 25 A. By itself; correct.

38:13 1 Q. (By Mr. Meader) And as per your practice,  
38:26 2 had you noted any signs relevant to the Budapest  
38:31 3 criteria, it would have been noted in the notes?

38:36 4 MR. KRAEUTER: Object to the form.

38:37 5 A. Correct.

38:41 6 MR. MEADER: All right. Could we take a  
38:56 7 very short break just so I can look at the May  
38:59 8 record and the June record. Maybe I have a  
39:01 9 couple questions about those.

39:02 10 MR. KRAEUTER: Sure.

39:06 11 (Recess from 6:55 p.m. to 7:00 p.m.)

45:08 12 Q. (By Mr. Meader) All right. Let's look at  
45:10 13 the notes from the May 23rd visit.

45:12 14 A. Uh-huh.

45:13 15 Q. It looks like you performed a physical  
45:25 16 examination. There is some paresthesias?

45:29 17 A. Paresthesias, yes.

45:31 18 Q. Paresthesias in the right upper extremity.  
45:33 19 What is paresthesias?

45:34 20 A. Paresthesias is basically in layman's  
45:42 21 terms a different sensation than you would expect.

45:45 22 Q. Okay.

45:46 23 A. So if you put something sharp on there,  
45:50 24 you would say this is sharp. Paresthesias means it's  
45:54 25 more vague. It's a different sensation.

45:56 1 Q. Would that --

45:57 2 A. Go ahead.

45:58 3 Q. I'm sorry. Go ahead.

45:59 4 A. It isn't in the same group as  
46:04 5 hyperesthesia, hyperalgesia, different allodynia.  
46:10 6 It's one step different, but same overall type of  
46:14 7 finding.

46:14 8 Q. That was my question actually. Would that  
46:17 9 fall into the sensory category?

46:18 10 A. Yes.

46:19 11 Q. Okay. No clear allodynia was noted. No  
46:26 12 hair pattern changes noted. Mild swelling noted. So  
46:32 13 using the Budapest criteria, would this physical  
46:35 14 examination support a finding of CRPS?

46:43 15 A. Yes.

46:59 16 Q. What signs are present?

47:02 17 A. Hyperalgesia, hypersensitivity and  
47:08 18 paresthesias. That would be that.

47:08 19 Q. Which is the sensory category?

47:10 20 A. Correct. And then mild swelling noted in  
47:13 21 the right and left hand would be the two signs that  
47:18 22 are present for the category of the signs for the  
47:28 23 Budapest criteria.

47:29 24 Q. Is there any relationship between the  
47:48 25 degree of swelling and the level of pain reported by

47:53 1 a patient?

47:53 2 A. No.

47:54 3 Q. It looks like you changed her from the  
48:04 4 Percocet to the Nucynta?

48:06 5 A. Correct.

48:07 6 Q. What was the reason for that?

48:08 7 A. One of the reasons was that Nucynta has  
48:24 8 what's called an abuse deterrent formulation. So you  
48:31 9 cannot -- well, it's harder to abuse it --

48:35 10 Q. Okay.

48:36 11 A. -- for illicit uses.

48:39 12 Q. Okay.

48:39 13 A. Not impossible but harder.

48:41 14 Q. Did you have those concerns --

48:43 15 A. No.

48:43 16 Q. -- with her?

48:44 17 A. It's not about concerns specifically. It  
48:48 18 is more about if you have a patient that you might  
48:52 19 expect that they would need medications for longer  
48:59 20 term, you want to make sure that No. 1, those  
49:01 21 medications don't lay in the wrong hands, that  
49:06 22 they're abuse-deterred possible, that they're -- it's  
49:09 23 not easy to abuse. It's not specific to a patient.  
49:12 24 It's specific to society.

49:13 25 Q. Sure.

49:14 1 A. So it's more general society background  
49:20 2 than a, in her case, a specific patient concern.  
49:27 3 It's, like I say, you wear a seatbelt. Are you  
49:30 4 afraid you're a bad driver? No. It's the law to  
49:32 5 wear a seatbelt. It's the right thing to do. That's  
49:34 6 the same thing here. It doesn't mean you're a bad  
49:38 7 driver because you're wearing a seatbelt.

49:38 8 Q. Preventing this kind of thing?

49:42 9 A. Yeah, not even preventive. Just if it's  
49:46 10 available -- you have an air bag in your car, that  
49:51 11 doesn't mean you expect to be in an accident.

49:51 12 Q. Right.

49:53 13 A. This is the exact same thing.

49:54 14 Q. Okay. Let's look at the records from June  
49:56 15 the 14th. It looks like you did a physical  
50:01 16 examination.

50:01 17 A. Yes.

50:02 18 Q. It looks like there was allodynia noted.  
50:10 19 No hair pattern changes. No swelling.

50:24 20 A. Yes.

50:24 21 Q. And would this physical examination  
50:32 22 support a diagnosis of CRPS?

50:38 23 A. Talking only about the signs, she has  
50:42 24 allodynia, which is a positive sign for that. Well,  
50:49 25 the guarding of the right upper extremity, you would

50:51 1 say reports of decreased range of motion and/or motor  
50:55 2 dysfunction. So, yes, for the signs. Just for the  
51:10 3 signs, yes.

51:11 4 Q. And take me through that. You say it's  
51:15 5 because she is --

51:16 6 A. Well, she has the allodynia and  
51:19 7 hyperalgesia, hypersensitivity, which is one sign.  
51:22 8 And then the patient's guarding the right upper  
51:24 9 extremity, which is a kind of a protective mechanism.  
51:26 10 She did not let me even go through a full range of  
51:30 11 motion due to pain. So that means it's a motor  
51:36 12 dysfunction.

51:56 13 Q. And so this would have been the first time  
52:00 14 that she did not let you go through a full  
52:06 15 examination due to pain, due to the limitation on her  
52:09 16 mobility?

52:09 17 A. If I recall correctly, the very first  
52:13 18 visit, it was similar that she had severe pain with  
52:18 19 range of motion, which then improved some and then  
52:22 20 got worse again.

52:23 21 Q. Okay. Now let's look at the note from the  
52:44 22 Mayo Clinic.

52:45 23 A. Okay.

52:45 24 Q. And on page 1 there's a bottom paragraph,  
53:09 25 second sentence, and I am just pointing these things



53:14 1 out to kind of save time. You're welcome to read the  
53:18 2 whole thing if you'd like. It says the skin of her  
53:21 3 right forearm used to turn red and blotchy, sometimes  
53:25 4 swell and become warm. But this has since resolved.

53:28 5 A. Okay.

53:29 6 Q. And then we've got on page 3 under  
53:33 7 physical exam, extremities, no obvious color change,  
53:37 8 swelling or temperature difference in the right upper  
53:40 9 limb compared to the left.

53:42 10 A. Wait, wait, wait. You're on page?

53:45 11 Q. Page -- I'm sorry. I was counting the  
53:48 12 cover letter. It's page 2.

53:49 13 A. Okay. All right. Go ahead.

53:51 14 Q. No obvious color change, swelling or  
53:53 15 temperature difference in the right upper limb  
53:55 16 compared to the left.

53:56 17 A. Uh-huh.

53:57 18 Q. So would, based on your review of these,  
54:24 19 the notes from this examination, would it support a  
54:26 20 finding of CRPS under the Budapest criteria?

54:30 21 A. Let's talk about the symptoms -- I'm  
54:55 22 sorry, about the signs on the exam. Light touch felt  
54:59 23 like a burning feather on the right upper limb, which  
55:04 24 is --

55:04 25 Q. Would be sensory?

55:06 1 A. Sensory. Movement of the right upper limb  
55:09 2 was slow and guarded due to pain. If you count it  
55:13 3 under the motor function, I mean, you could give one  
55:17 4 point for that as well. Let me look. So for the  
55:27 5 signs, you would have the two out of four signs  
55:30 6 positive in the physical exam from the Mayo Clinic.

55:44 7 Q. Did they diagnose her with CRPS?

55:46 8 A. They diagnosed her with chronic pain  
55:57 9 involving the right upper limb after an injury April  
55:59 10 2015.

56:00 11 Q. Is that something different than CRPS?

56:05 12 A. CRPS is a chronic pain syndrome.

56:08 13 Q. Uh-huh.

56:09 14 A. This was at the Mayo Clinic from my  
56:19 15 information. I sent her there for the facial  
56:21 16 abnormalities and the other things that I wasn't  
56:26 17 familiar with to treat. And she was referred to the  
56:34 18 pain management at the Mayo Clinic and a consultation  
56:40 19 with a pain psychologist was requested as well.

56:45 20 Q. Do you know if that's taken place?

56:46 21 A. From my information it has not.

56:49 22 Q. All right.

56:50 23 A. Yet. And they also did some lab studies  
56:58 24 which were negative for inflammatory markers. That  
57:06 25 was a question you asked before.

57:07 1 Q. Which one?

57:08 2 A. You asked if I did a blood count. It was  
57:13 3 done and it stated there was no inflammatory markers.

57:16 4 Q. All right. So your interpretation of this  
57:25 5 is that she was diagnosed with CRPS or not diagnosed  
57:31 6 with CRPS? I understand they are referencing chronic  
57:35 7 pain here, but I don't see CRPS referenced anywhere.

57:43 8 A. She was diagnosed with chronic pain  
57:46 9 syndrome. They did not use it as a positive or  
57:51 10 negative. They did not say she does have it or she  
57:54 11 does not have it. That's correct. They did not even  
57:59 12 comment on it, which, in my opinion, when I read it,  
58:03 13 was not surprising since I sent her over for the  
58:06 14 facial abnormalities.

58:09 15 Q. I'm looking at the first sentence here.  
58:11 16 It says Ms. Orr is a 45-year-old woman referred for  
58:14 17 evaluation of RSD/CRPS.

58:17 18 A. I know that's what it says. The  
58:19 19 interesting part is in my note when I sent over to  
58:22 20 the Mayo Clinic from March 9, 2016, I wrote since I  
58:36 21 can't -- patient reports that she was diagnosed with  
58:40 22 trigeminal neuralgia. Since I cannot fully explain  
58:45 23 her symptoms -- it was about the face -- from a CRPS  
58:49 24 type syndrome, I would like to have her evaluated by  
58:52 25 a neurologist at Mayo Clinic for the neurologic

58:56 1 symptoms as noted above to determine if there's any  
58:58 2 etiology. In my experience, her memory difficulties,  
59:01 3 difficulty even getting speech started and sometimes  
59:04 4 even inability to say her name is not related to  
59:08 5 CRPS.

59:08 6 So I referred her to Mayo Clinic to  
59:12 7 evaluate for that. Now, they took it apparently that  
59:14 8 she was referred also for the CRPS.

59:18 9 Q. We'd have to talk to them, I guess, to  
59:20 10 figure out --

59:20 11 A. Correct.

59:21 12 Q. Yeah. Okay.

59:22 13 A. And it might be that on my referrals, my  
59:25 14 staff put on CRPS which is what our diagnosis was in  
59:28 15 our clinic. It might well be. Per my note if they  
59:31 16 needed to see her, I referred her for the neurologic  
59:34 17 symptoms that I couldn't explain.

59:36 18 Q. Did you ever do an alcoholic bath test  
59:46 19 with her?

59:46 20 A. A what?

59:47 21 Q. Alcohol bath test?

59:50 22 A. You could enlighten me what that is.

59:54 23 Q. This is my understanding of the way it's  
59:56 24 used. Is when a patient reports hot or cold skin in  
00:02 25 connection with CRPS, you can apply alcohol to it and

00:06 1 it will induce a reaction and it will, if the  
00:12 2 patient, you know, does suffer from CRPS and that  
00:15 3 symptom or that sign has been present previously, the  
00:19 4 use of the alcohol bath or taking a little dropper  
00:22 5 and dropping alcohol on the affected area will induce  
00:24 6 that sign.

00:27 7 A. Do you have any literature for that?

00:29 8 Q. Yes. I think it's actually in what you  
00:31 9 provided me or what was provided in your expert  
00:33 10 report.

00:33 11 A. I don't think I provided you that.

00:35 12 Q. Yeah. I think it was in -- it may have  
00:37 13 been with --

00:38 14 MR. KRAEUTER: Where is it?

00:39 15 A. I mean, if this is a test, I've never seen  
00:42 16 it done. I've never heard about anyone doing this.

00:45 17 Q. (By Mr. Meader) Okay. I just thought I'd  
00:47 18 ask.

00:47 19 A. This is new for me.

00:51 20 MR. KRAEUTER: Garrett, where in the  
00:52 21 documents?

00:54 22 MR. MEADER: I think it's in there  
00:55 23 somewhere.

00:56 24 A. And it might well be in some empirical  
00:59 25 that some people do things a certain way. I have not

01:02 1 heard this to be a standard test that it's accepted  
01:06 2 anywhere.

01:06 3 Q. (By Mr. Meader) Okay.

01:07 4 A. Because, honestly, I do not know about  
01:09 5 that.

01:09 6 Q. Okay. I don't know where it is.  
01:15 7 Honestly, I don't know if it's that important. Let  
01:18 8 me go back and find it.

01:19 9 A. To answer your question, I have not done  
01:21 10 that.

01:21 11 Q. That's my question was if you heard of it.

01:23 12 A. I have not heard of -- I cannot recall  
01:26 13 that I've heard of that specific test, no.

01:41 14 MR. KRAEUTER: Okay. Where is it in the  
01:43 15 literature?

02:29 16 MR. MEADER: I can't put my fingers on it.  
02:31 17 He's answered my question.

03:14 18 Q. (By Mr. Meader) So is early treatment  
03:25 19 important in CRPS, in managing CRPS?

03:29 20 A. It's common practice to start treatment as  
03:34 21 early as possible, yes.

03:36 22 Q. And what are the accepted treatments?

03:39 23 A. Medications, physical therapy and  
03:47 24 occupational therapy, hypersensitization therapy.  
03:51 25 Those are the typical early treatments.

03:53 1 Q. And would you agree that effective  
04:02 2 treatment should be functionally focused and center  
04:07 3 around physical and occupational therapy?

04:10 4 A. That's the common answer is it is  
04:18 5 difficult to assess how effective treatment is in the  
04:24 6 literature, but the consensus is that physical  
04:29 7 therapy and occupational therapy is a mainstay of  
04:31 8 treatment.

04:32 9 Q. Okay.

04:32 10 A. The outcomes, the truly evidence-based  
04:39 11 medicine studies are not there to support it fully or  
04:42 12 to discredit it.

04:44 13 Q. But it is the consensus it sounds like?

04:47 14 A. It's what typically is done, yes.

04:50 15 Correct.

04:50 16 Q. All right. And you'll agree with me here  
04:54 17 that the physical therapy that Ms. Orr went to, it  
04:59 18 improved her range of motion?

05:00 19 A. I do not know if it improved her range of  
05:03 20 motion. I can't say.

05:04 21 Q. Okay.

05:06 22 A. But I know she had probably 11 or 12  
05:08 23 sessions, at least, I believe it was occupational  
05:11 24 therapy.

05:11 25 Q. Right. And would you agree with me that

05:15 1 Kamaleson's records showed a trend of improvement in  
05:19 2 range of motion?

05:19 3 A. Per his notes, yes.

05:21 4 Q. Per his notes, yes. Which coincided with  
05:24 5 the time at least partially that she was going  
05:26 6 through physical therapy?

05:27 7 A. Occupational therapy.

05:28 8 Q. I'm sorry.

05:28 9 A. Correct.

05:29 10 Q. Occupational therapy. Okay. And is she  
05:31 11 still doing that? Is she doing any occupational  
05:34 12 therapy or physical therapy?

05:36 13 A. I do not believe she's currently enrolled.

05:39 14 Q. When is the last time that she did  
05:41 15 occupational or physical therapy?

05:42 16 A. Probably late 2015, but I can't say for  
05:53 17 sure.

05:53 18 Q. Okay. Why is she not doing it now?

05:56 19 A. Because overall she did not feel there was  
06:01 20 any significant improvement with it.

06:03 21 Q. Even though her range of motion, it  
06:08 22 appears, improved?

06:09 23 A. I can't say if it improved with it or not.  
06:20 24 I can say that her pain is still significant and it  
06:23 25 didn't seem that the occupational therapy was able to



06:28 1 resolve her pain in a functional role.

06:34 2 Q. Because it sounds like it's sort of an  
06:38 3 accepted, I guess, treatment for it and that it's  
06:42 4 encouraged. I guess I'm trying to figure out why it  
06:45 5 is she's not doing it any longer when it appears  
06:48 6 to --

06:48 7 A. I believe she had 12 visits and that's a  
06:52 8 pretty good number for a first treatment.

06:57 9 Q. Okay. And then so beyond that, you've got  
07:07 10 drugs and you've got medications and you've got  
07:11 11 occupational or physical therapy. Then what are some  
07:16 12 other options for treatment?

07:17 13 A. A psychology/cognitive behavioral therapy.

07:26 14 Q. Which appears to have been recommended  
07:28 15 here but not done?

07:29 16 A. That's correct.

07:31 17 Q. By the Mayo Clinic? Recommended by the  
07:33 18 Mayo Clinic?

07:34 19 A. Recommended by me.

07:34 20 Q. And you as well?

07:35 21 A. Yes.

07:36 22 Q. Okay. When was that recommended by you?

07:38 23 A. Well, this is the CBT, cognitive  
07:52 24 behavioral therapy is recommended for longer term  
07:54 25 benefit. It's more coping mechanisms, how to deal

07:58 1 with the pain, how to deal with the effects of the  
08:01 2 chronic pain. And I believe the Mayo Clinic  
08:10 3 recommended pain psychology, which might play a part  
08:13 4 in that as well. I don't believe I sent her off for  
08:21 5 cognitive behavior therapy yet.

08:23 6 Q. Any other counseling that you've  
08:24 7 recommended for her?

08:25 8 A. I don't know if I recommended any  
08:32 9 counseling at the current time. I believe right now  
08:37 10 we're still in the process with the spinal cord  
08:40 11 stimulation to see how much benefit she can get and  
08:44 12 then determine what else she needs.

08:46 13 Q. How many spinal cord stimulators have you  
08:48 14 put in?

08:49 15 A. Since 2004, so that's 10, 12, 11-12 years,  
09:01 16 12 years, multiple.

09:04 17 Q. Ballpark? Dozens or hundreds or --

09:08 18 A. Probably hundreds.

09:09 19 Q. Hundreds?

09:09 20 A. I would think, yeah.

09:11 21 Q. How many have you put in to treat CRPS of  
09:16 22 the total that you put in?

09:17 23 A. Put in 10, 12.

09:23 24 Q. So that's been one a year?

09:25 25 A. Maybe around one a year possibly. Maybe a

09:50 1 little bit more probably.

09:52 2 Q. Have you kept track of how many of those  
09:59 3 spinal cord stimulators that you put in for CRPS  
10:01 4 patients you've gone back and taken out?

10:03 5 A. I do not -- let me think. I don't believe  
10:11 6 that I've taken out one.

10:13 7 Q. For CRPS?

10:14 8 A. I don't think so. Not to my recollection.  
10:19 9 No.

10:20 10 Q. Now, is the spinal cord stimulator sort of  
10:30 11 the final option for treatment?

10:31 12 A. No. It's not the final option. There's  
10:35 13 actually a push to do those earlier in the past. It  
10:38 14 used to be, again, in the past that you'd follow an  
10:44 15 algorithm with medications, physical therapy,  
10:48 16 occupational therapy.

10:51 17 Q. Blocks?

10:52 18 A. Blocks possibly. Then the next step  
10:56 19 possibly would be spinal cord stimulators.

10:58 20 Q. Right.

10:59 21 A. And now it's proposed to be hopefully done  
11:03 22 earlier than later. Not waiting as a last resort but  
11:08 23 waiting as a part of the treatment algorithm to be  
11:14 24 done earlier. So it's not the last resort. It's not  
11:22 25 spinal cord stimulator if everything else does not

11:24 1 work.

11:25 2 Oftentimes I'll use spinal cord  
11:28 3 stimulators to see if you can get a patient decrease  
11:32 4 in her medication, improve the pain, and ideally  
11:36 5 would like to improve their functional level, improve  
11:39 6 the quality of life with it. And sometimes pain  
11:43 7 medications, especially opiates, cause side effects.  
11:47 8 And if you can decrease the amount of pain medication  
11:51 9 with a spinal cord stimulator, it's worthwhile to do  
11:55 10 it as well.

11:55 11 Q. What is the likelihood that the  
11:57 12 medications will be decreased once the stimulator's  
12:04 13 implanted? What's been your experience with that?

12:06 14 A. Well, it's typical to estimate because the  
12:09 15 way the spinal cord stimulation works is that the  
12:12 16 first step would be a trial to determine if the  
12:15 17 patient gets benefit or not. During the trial, you  
12:17 18 would look at the pain medication, if they're able to  
12:20 19 take less pain medication, if they get benefit. And  
12:25 20 then you determine if the patient's a candidate for a  
12:27 21 permanent implant of a spinal cord stimulator. The  
12:33 22 goal is to decrease the pain medications with it.

12:36 23 Some patients, to be fair, have an  
12:41 24 increased functional level, do more with the spinal  
12:43 25 cord stimulator and then cause more pain doing things

12:47 1 they would not be able to do otherwise, but they  
12:50 2 hadn't been able to do in a long time. And,  
12:52 3 therefore, they might still need oral pain  
12:55 4 medications as well.

12:56 5 Q. What kind of things would you think that  
12:59 6 Ms. Orr would be unable to do now as a result of --

13:02 7 A. Currently?

13:03 8 Q. Uh-huh.

13:04 9 A. She's guarding her right upper extremity.  
13:06 10 She told me in the last visit that she's typing with  
13:08 11 the left hand on the computer. She can't use the  
13:11 12 right hand anymore. I think she has enough promise  
13:17 13 with the activities of daily living with the right  
13:19 14 upper extremity. She has difficult time using the  
13:22 15 right arm. Right now I don't think she'll be able to  
13:26 16 brush her hair with the right arm. I think she's  
13:29 17 doing it with the left hand.

13:30 18 I know that at her job, they reassign her.  
13:34 19 She does some different duties now because of that to  
13:39 20 substitute the right upper extremity loss of function  
13:42 21 with the left side.

13:43 22 Q. Do you remember specifically what the  
13:45 23 change in duties was?

13:47 24 A. Yes. I know that she -- I'm not a hundred  
13:51 25 percent sure what her job description is, but I do

13:53 1 know that her supervisor allowed her to do things  
13:56 2 differently and that she's not going to a certain  
13:59 3 unit where she works because she couldn't defend  
14:02 4 herself. I think she works in something medical. I  
14:08 5 don't think she's in a medical field, but in some  
14:11 6 medical facility. And I believe that a lot of --  
14:16 7 maybe a psychiatric unit or psychiatric patients.  
14:19 8 And I believe that they feel it would be too  
14:23 9 dangerous for her since she couldn't defend herself  
14:26 10 on the unit.

14:27 11 But that's as far as I know. I don't know  
14:30 12 exactly her job duty there. I don't think it's  
14:32 13 patient contact that she has. She's not a nurse.  
14:34 14 She's not doing hands-on patient contact. But she  
14:38 15 did tell me that her supervisors switched her over to  
14:42 16 not include that in her job.

14:44 17 Q. What are the things, I guess, would you be  
14:47 18 or would you expect her to be unable to do? You  
14:50 19 mentioned brushing her hair, you know, with her right  
14:53 20 hand. You would expect that she wouldn't do that?

14:55 21 A. Brushing her teeth with her right hand. I  
14:58 22 think she has a difficult time probably getting  
15:01 23 dressed with the right side. Cooking with the right  
15:05 24 arm, cleaning.

15:12 25 Q. Anything that would involve lifting?

15:15 1 A. Yes.

15:16 2 Q. Now, what was the limit on her range of  
15:22 3 motion? Was it, you know, she couldn't pick it up  
15:27 4 here or out to the side or . . .

15:31 5 A. On the last visit, she got the right upper  
15:34 6 extremity and any attempt to pick it up over 90  
15:37 7 degrees abduction caused a lot of pain. Even before  
15:44 8 then it caused pain. So I would think that any  
15:50 9 overhead activity would be extremely difficult for  
15:52 10 her.

15:53 11 Q. What about something that is not overhead?  
15:57 12 I mean, just kind of in front of her?

15:59 13 A. Looking at my last note, only the last  
16:04 14 note, she was very guarded. She developed the  
16:06 15 allodynia. So I think at the current time from the  
16:10 16 last visit, which was sometime in June, it would  
16:16 17 definitely be very difficult for her to use anything,  
16:18 18 to do anything with the right upper extremity.

16:20 19 Q. It sounds she can't even type any longer?

16:23 20 A. She types with her left.

16:24 21 Q. With her left hand, yeah.

16:25 22 A. Correct.

16:26 23 Q. Would there be any benefit of trying the  
16:39 24 generic version of Cymbalta, see if it doesn't have  
16:42 25 the digestive issues?

16:46 1 A. I would assume she received a generic  
16:48 2 version.

16:49 3 Q. If she didn't, would it be worthwhile to  
16:51 4 try that again?

16:52 5 A. No. It's bioequivalent. So I, I did not  
16:58 6 prescribe her brand name Cymbalta. I prescribed  
17:02 7 Cymbalta because that's a known medication.  
17:07 8 Typically at the pharmacy, she would get the  
17:10 9 duloxetine. It's just common practice that you would  
17:16 10 get the generic if it's on the market unless I would  
17:18 11 write distribute as written. Then I would  
17:23 12 specifically request the brand name only, which I did  
17:25 13 not.

17:25 14 Q. So the difference between the generic and  
17:29 15 the brand name is the fillers, I understand, lots of  
17:33 16 times, and not necessarily the active compounds or --

17:40 17 A. Well, the difference between generic and  
17:43 18 brand name might be there's no difference. It might  
17:45 19 be the same company producing it possibly. And the  
17:52 20 active ingredient has to have certain standard  
17:57 21 compared to the brand name. There might be a  
17:59 22 different system, different matrix that provides the  
18:05 23 medication. That is correct.

18:06 24 Q. Okay.

18:07 25 A. But I do not know.



18:08 1 Q. Have you ever seen it where a patient has  
18:10 2 taken the name brand one and had an adverse reaction  
18:18 3 and taken an off brand and not had an adverse  
18:21 4 reaction or vice versa, in that adverse reaction was  
18:25 5 caused by, you know, some filler that was in the  
18:27 6 medication as opposed to the active ingredient?

18:31 7 A. I have seen more that some patient in the  
18:37 8 past have reported that a certain formulation was  
18:43 9 less effective than a different one with the same  
18:46 10 medication. And it not even always between brand  
18:51 11 name and generic, but even between two different  
18:53 12 generic brands that a patient said I got better  
18:57 13 benefit always with this generic brand versus this  
19:01 14 generic formulation.

19:06 15 I do not recall if I've ever seen a  
19:10 16 patient that had a brand name and was not tolerating  
19:18 17 it and got the generic and was tolerating it. I do  
19:23 18 not believe that I can recall that.

19:24 19 Q. So the spinal cord stimulator, that could  
19:30 20 potentially resolve a need for medication or lessen  
19:34 21 the --

19:34 22 A. The hope is that it would definitely  
19:36 23 lessen the need for medication. That's one of the  
19:39 24 criteria that I would look at during the trial. Yes.

19:43 25 Q. How long does the trial last?

19:45 1 A. Well, my trials last anywhere from five to  
19:48 2 seven days.

19:49 3 Q. Is there any literature out there that  
19:53 4 says this percentage of time when the spinal cord  
19:56 5 stimulator is successful, that medication usage goes  
20:01 6 down?

20:01 7 A. I don't know if there's any clear  
20:06 8 literature out there. I do not know.

20:10 9 Q. What is trigeminal -- I apologize if I  
20:29 10 mispronounce that -- neuralgia?

20:33 11 A. Trigeminal neuralgia?

20:36 12 Q. Yes.

20:36 13 A. That's a medical term. It's an  
20:38 14 inflammation and painful condition with one of the  
20:40 15 facial nerves, the fifth nerve, the fifth cranial  
20:44 16 nerve. It's typically a pain on one side of the face  
20:49 17 in a certain distribution.

20:51 18 Q. Okay. And that's limited to the face?

20:56 19 A. Yes.

20:56 20 Q. All right.

20:58 21 MR. MEADER: Take about a five-minute  
21:00 22 break. I'm nearing the end. I just want to  
21:03 23 look at my notes real quick.

21:05 24 MR. KRAEUTER: Sure.

21:06 25 (Recess from 7:37 p.m. to 7:41 p.m.)

25:12 1 Q. (By Mr. Meader) So the pain that is out of  
25:14 2 proportion to the stimulus that you were talking  
25:16 3 about, you know, you just like touch her on the arm  
25:19 4 and then, you know, the sensation or the pain was  
25:22 5 greater than would be expected?

25:24 6 A. Are you talking about the definition of  
25:27 7 CRPS?

25:27 8 Q. Right. And what you've observed, I  
25:29 9 guess --

25:30 10 A. Oh, oh. Okay.

25:31 11 Q. -- with Ms. Orr here. That's something  
25:33 12 you've observed; right?

25:34 13 A. Yes.

25:35 14 Q. Now, when you were doing your examination  
25:37 15 of her and you touched her arm, how much pressure  
25:39 16 would you put on it? Would you just lightly touch it  
25:42 17 or squeeze it? What's your standard? Do you recall?

25:44 18 A. The standard is to put as much pressure as  
25:47 19 the patient allows you to --

25:48 20 Q. Okay.

25:49 21 A. -- which in patients with CRPS is to be  
25:55 22 limited. For allodynia, you just do a stroke very  
26:02 23 soft on the skin because allodynia means pain to a  
26:07 24 non-painful stimulus.

26:09 25 Q. Sure.

26:10 1 A. For hyperalgesia, you know, pain out of  
26:15 2 proportion, you just press down. They should feel it  
26:19 3 and then you just see what kind of pain response they  
26:22 4 give you.

26:22 5 Q. Okay. So with the allodynia, it sounds  
26:25 6 like just a light brush. Could it be something like  
26:29 7 me wearing long-sleeved clothes?

26:31 8 A. Yes.

26:31 9 Q. Something that bad or that light?

26:34 10 A. Yes. Patients, as an example, that have  
26:36 11 CRPS in the lower extremity, one of the findings that  
26:41 12 they report oftentimes when you ask them is at night,  
26:44 13 they do not like to have a blanket or a bed sheet  
26:48 14 touching their foot. They hang their foot out of the  
26:51 15 bed just because it's so uncomfortable.

26:53 16 Q. All right.

26:54 17 A. Yes.

26:55 18 Q. So you would expect her then to avoid  
26:57 19 doing activities or getting things that would, you  
27:01 20 know, apply pressure or any type of touch to the  
27:05 21 affected area, assuming it's allodynia?

27:10 22 A. If it's allodynia; correct. Oh, yes.  
27:14 23 Allodynia, you would expect that a patient that's --  
27:16 24 anything that they can do to guard that extremity or  
27:20 25 that area, trying to avoid any pressure on it, any

27:25 1 touch on it, any trauma to it, yes, that's correct.

27:30 2 Q. I think in your notes you referenced some  
27:34 3 allodynia. And was that something that your  
27:38 4 understanding for her is that at least -- I think  
27:41 5 it's referenced more recently --

27:42 6 A. Yes.

27:43 7 Q. -- that is constant, that is the allodynia  
27:47 8 constant?

27:47 9 A. Okay. The difference between allodynia  
27:58 10 and hyperalgesia is fluid, okay, in one way. So you  
28:05 11 expect pain to palpation to be there most of the time  
28:11 12 at least. Yes. Allodynia, I've had some patients  
28:15 13 that have it all the time, very same area and you  
28:20 14 have some other patients that it waxes and wanes in a  
28:24 15 way. Fluctuates somewhat.

28:27 16 Q. How about with Ms. Orr? Does it wax and  
28:30 17 wane?

28:30 18 A. I don't know if it waxes and wanes. I  
28:38 19 only diagnosed her with allodynia one time. That was  
28:41 20 the last visit. She had pain before to palpation.  
28:47 21 The last time she maybe almost did not want me to, I  
28:51 22 remember, didn't want me to even examine the forearm  
28:54 23 because she knew it was going to cause pain. She was  
28:57 24 very clearly emotionally like please don't touch me  
29:00 25 there.

29:02 1           So last time, then, of course, I did just  
29:06 2 touch her there and she had significant pain with it.  
29:09 3 That's the definition of the allodynia, yes.

29:11 4           Q.     Now, do you know whether or not that stage  
29:15 5 with her, did she express to you one way or another  
29:17 6 whether or not --

29:18 7           A.     I think she -- I think in my note for the  
29:21 8 last time, I did report that she said it was for  
29:26 9 three or four weeks that it got worse. But if you  
29:30 10 want, I can look that up.

29:37 11           Yes. She reports pain with touch in the  
29:38 12 right hand and wrist area and some in the forearm.  
29:54 13 Let me see. I believe that she told me it's gotten  
30:06 14 worse over a couple weeks.

30:09 15           I do not see that in my note anywhere  
30:12 16 might be -- yeah. I don't know how long the  
30:26 17 allodynia had been going on.

30:28 18           Q.     Okay. Have you ever heard of manual  
30:33 19 therapy?

30:33 20           A.     Yes.

30:34 21           Q.     Can that be an effective way to treat  
30:37 22 CRPS?

30:42 23           A.     Some people propose it as part of PTOT.

30:47 24           Q.     Uh-huh.

30:48 25           A.     There are some case reports that some

30:54 1 patients have benefitted with it and others have not.

30:58 2 Yes. I've heard about it, yes.

30:59 3 Q. Was she recommended to do that?

31:02 4 A. Not by me. Not specifically mural  
31:07 5 therapy.

31:07 6 Q. Would that have been something you  
31:09 7 recommended or something that the therapist just sort  
31:11 8 of --

31:12 9 A. The therapist.

31:12 10 Q. That would have been something the  
31:13 11 therapist would have come up with?

31:14 12 A. Yeah.

31:15 13 Q. Okay.

31:16 14 A. If I felt strongly that is an actual  
31:21 15 treatment that can be recommended as part of therapy,  
31:24 16 but typically therapists would possibly incorporate  
31:29 17 that in their treatment plan.

31:32 18 Q. CRPS, is that a progressive condition?

31:36 19 A. It can be, yes.

31:40 20 Q. And do you believe it is in Ms. Orr's  
31:42 21 case?

31:42 22 A. For her with the notes that I have has  
31:48 23 been a fluctuating condition that the last time she  
31:53 24 was the worst that I've seen her. I cannot say if  
32:00 25 it's going to be progressive in the future or not.

32:04 1 But it is not uncommon for CRPS based in the  
32:07 2 literature that there's some studies that go several  
32:11 3 years and they show that some patients get better.  
32:14 4 Some stay the same. Some get worse.

32:17 5 Q. Now, if it is progressive in her case,  
32:19 6 would you expect to see more frequent signs such as  
32:25 7 swelling, allodynia, hyperalgesia?

32:31 8 A. Hyperalgesia.

32:33 9 Q. Hyperalgesia, the redness, the change in  
32:38 10 skin tone, the nails, the hair, would you expect to  
32:44 11 see an increase in all those?

32:46 12 A. You could see an increase in that. You  
32:48 13 could also see an increase just from disuse, that a  
32:53 14 patient doesn't use the arm or the upper extremity  
32:55 15 and then you could see possible findings of some  
33:00 16 muscle atrophy just because of disuse. Possibly down  
33:05 17 the road you can see some contractures if the patient  
33:08 18 doesn't do range of motion. You can see that down  
33:25 19 the road as well.

33:25 20 Q. Have you ruled out myofascial pain with  
33:31 21 radial flexis?

33:34 22 A. With the what?

33:34 23 Q. Radial flexis?

33:37 24 A. Radial flexis.

33:39 25 Q. Maybe I'm saying it wrong. Radiating?



33:40 1 A. Oh, radiating. Clinically there's likely  
33:46 2 some part of my -- myofascial pain by itself just  
33:49 3 means pain from muscle and soft tissue.

33:53 4 Q. Uh-huh.

33:53 5 A. So if you define it like that, you would  
34:00 6 say it would be expected. Now, if you want to call  
34:03 7 myofascial pain syndrome the way she presented  
34:09 8 localized in the area where she had it, it would be  
34:12 9 less likely. There's no, there's no test, objective  
34:17 10 test that you get a blood draw or an X-ray or an  
34:20 11 ultrasound to rule out myofascial pain.

34:23 12 Q. In your experience, how often do the  
34:34 13 patients show a sign of either the hot or cold  
34:40 14 changes in their skin when they've been diagnosed  
34:43 15 with CRPS?

34:43 16 A. In my experience, a lot of patients report  
34:48 17 it. And in my experience, patients even report it  
34:53 18 sometimes when you put your fingers on, you don't  
34:57 19 feel it. They still report it historically that they  
35:01 20 have it and they still report, Doctor, look at this.  
35:05 21 This feels cold and this feels hot. And I put my  
35:09 22 finger on it, I can't feel a difference. So a lot of  
35:14 23 patients report it. Clinically I don't find it as  
35:19 24 often. You do -- I do find it, but not all the time.  
35:24 25 Clearly not.

35:24 1 Q. Same question for hair and nails.

35:32 2 A. Especially with the hair, if you believe  
35:39 3 in these stages that we talked about. There's one  
35:41 4 stage where the hair grows more and there's one stage  
35:45 5 where the hair kind of grows less. It's a very  
35:47 6 subjective measurement. I do see some patients that  
35:51 7 have more hair loss and really shiny skin with, looks  
35:58 8 like the hair is just not there anymore.

36:02 9 The nail growth I do see once in a while.  
36:08 10 Not very frequent.

36:10 11 Q. Okay. Assuming a patient has been  
36:21 12 diagnosed with CRPS, how often would you expect that  
36:26 13 patient to exhibit the signs and symptoms necessary  
36:30 14 to support a diagnosis under the Budapest criteria  
36:36 15 when that patient is examined by a physician?

36:38 16 A. I cannot say. I don't know. I don't know  
36:45 17 if you can say you have to, every three visits you  
36:48 18 have to see all the signs and symptoms. Oftentimes  
36:54 19 in followup visits, you don't ask for all the  
36:59 20 symptoms again because you've established symptoms  
37:01 21 already. You look for other things. You look for  
37:05 22 how do you -- the patient react to medications. What  
37:08 23 kind of changes do we have to make? What kind of  
37:11 24 treatment can we make?

37:14 25 So I can't, I can't answer that. As a

37:18 1 physician you don't do a full history and physical  
37:21 2 every single time a patient comes. You do that  
37:23 3 typically more detailed in the first visit and then  
37:26 4 as the clinical course dictates. Some visits are  
37:32 5 really just to see if you start a patient on a new  
37:36 6 medication, you really focus on, okay, what is the  
37:39 7 result of the medication. Any side effects? Is  
37:42 8 there any benefit? Is there any, you know, reason to  
37:47 9 continue the medication, discontinue the medication,  
37:49 10 do a different medication?

37:51 11 So at that point you wouldn't look at all  
37:53 12 the historical signs and symptoms again necessarily.

37:55 13 Q. Okay.

37:56 14 A. So it's very difficult to say how often do  
37:59 15 you expect to fulfill all the criteria versus not.

38:04 16 Q. Okay. Do you think that it is not  
38:09 17 important to verify that a patient is still suffering  
38:15 18 from a condition for which they are being treated?

38:17 19 A. That was a double negative. Do you think  
38:24 20 that it is not important.

38:25 21 Q. Let me ask it this way.

38:27 22 A. Do you think it is important?

38:29 23 Q. Let me ask it this way: Isn't it  
38:30 24 important for you as a treating physician to verify  
38:31 25 that the patient you are treating is still suffering

38:34 1 from the condition that you're treating them for?

38:36 2 A. Correct. It's important.

38:39 3 Q. Okay.

38:42 4 A. Meaning that once we establish a diagnosis  
38:47 5 and the patient comes and tells you some symptoms  
38:50 6 still and pain, you go from there. You don't  
38:53 7 reestablish a diagnosis every single time.

38:55 8 Q. Okay. But if you were uncertain in your  
38:58 9 initial diagnosis, you'd certainly want to follow  
39:01 10 up --

39:01 11 A. Yes.

39:02 12 Q. -- and do a thorough and complete physical  
39:05 13 examination each time until your diagnosis was  
39:09 14 verified?

39:09 15 A. You treat the patient; correct. Yes.

39:18 16 MR. MEADER: Okay. That's all I've got.

39:19 17 MR. KRAEUTER: I've got a couple  
39:21 18 followups.

39:21 19 EXAMINATION

39:22 20 BY MR. KRAEUTER:

39:22 21 Q. Doctor, there are some questions about  
39:24 22 blood testing to try to establish CRPS. Are you  
39:30 23 aware of the Mayo Clinic doing some blood testing --

39:33 24 A. Yes.

39:33 25 Q. -- on Ms. Orr?

39:34 1 A. Yes.

39:35 2 Q. And did those blood test results further  
39:41 3 confirm your belief that she has CRPS Type 1?

39:44 4 A. Well, the blood testing is truly done to  
39:47 5 rule out any other explanation.

39:49 6 Q. Uh-huh.

39:50 7 A. The blood test itself doesn't establish  
39:52 8 CRPS.

39:52 9 Q. Okay.

39:53 10 A. At all. So in my clinical opinion when I  
39:57 11 saw her, I did not feel it with necessary to get any  
40:00 12 blood tests. The Mayo Clinic as part of their  
40:04 13 standard protocol or their treatment, they wanted a  
40:09 14 set of blood values.

40:10 15 And, again, for me it wouldn't have been  
40:15 16 necessary to do at the current time. Now that it's  
40:19 17 been done and we have the results, the blood test  
40:23 18 showed that there's not any inflammatory process  
40:26 19 going on when I looked at them. I looked at them  
40:29 20 today for the first time. Just glanced. And as far  
40:33 21 as I can tell, no autoimmune markers were positive.  
40:37 22 But, again, I did not see every little single value.

40:42 23 Q. Sure. So that would tend to rule out  
40:44 24 cellulitis, arthritis, Raynaud's syndrome?

40:46 25 A. Raynaud's syndrome is ruled out

40:50 1 clinically. You don't need a blood test specifically  
40:53 2 for that. Cellulitis, you would typically expect  
40:58 3 increased inflammatory markers. So the blood test  
41:05 4 shows there's no inflammatory process going on.

41:07 5 Q. Okay.

41:08 6 A. And it's a very unspecific blood test, not  
41:11 7 for one specific diagnosis, but overall for any  
41:13 8 inflammatory process.

41:15 9 Q. And in this case, you ruled out Raynaud's  
41:17 10 syndrome clinically?

41:18 11 A. Yes.

41:19 12 Q. Okay. And how do you do that?

41:20 13 A. Typically Raynaud's syndrome you would  
41:24 14 know by history and physical exam. And for  
41:26 15 Raynaud's, the history is very important. They  
41:29 16 typically would tell you that based on the  
41:32 17 temperature, they would have changes in their skin  
41:36 18 coloring, changes in pain, and she did not report any  
41:41 19 of that.

41:42 20 Q. Okay. And you ruled out cellulitis in  
41:44 21 this case?

41:45 22 A. I did not see any evidence of cellulitis;  
41:48 23 correct.

41:48 24 Q. Okay. And if she came to see you the  
41:53 25 first time in October of 2015 after an injury in

41:58 1 April of 2015, you wouldn't expect cellulitis to  
42:03 2 exist that long?

42:06 3 A. There's some patients that have cellulitis  
42:10 4 come on for a long time. But the clinical picture  
42:12 5 was not consistent with cellulitis.

42:13 6 Q. For Ms. Orr?

42:15 7 A. Correct.

42:16 8 Q. Okay. Arthritis, you already talked about  
42:18 9 how the fact you don't get arthritis in the middle of  
42:21 10 your forearm.

42:21 11 A. Correct. And there was no indication for  
42:24 12 arthritis.

42:24 13 Q. So you're able to rule that out  
42:26 14 clinically?

42:26 15 A. Correct.

42:27 16 Q. Okay.

42:29 17 A. But she did have some X-rays done before  
42:32 18 that didn't show any abnormalities.

42:34 19 Q. Okay. And that would also rule out  
42:36 20 arthritis?

42:36 21 A. Yes.

42:37 22 Q. Okay. The duplex scanning, that would  
42:43 23 test for DVTs?

42:45 24 A. Yes.

42:46 25 Q. And that's, what is that, deep vein

42:49 1 thrombosis?

42:50 2 A. Yes; correct.

42:51 3 Q. Or peripheral arterial obstruction?

42:53 4 A. Possibly if you look at that specifically,  
42:58 5 yes. The typical doppler ultrasound, in order for  
43:14 6 evaluation for blood clot, that's what it looks for  
43:17 7 if there's a blood clot. So you want to rule out a  
43:21 8 blood clot with that.

43:21 9 Q. And you were able to rule out deep vein  
43:25 10 thrombosis clinically?

43:26 11 A. Clinically I did not feel that there is  
43:29 12 any criteria that I would associate with blood clots.

43:33 13 Q. Okay. Same thing for peripheral arterial  
43:36 14 obstruction? Did you rule that out clinically?

43:38 15 A. Correct.

43:39 16 Q. In this case?

43:40 17 A. Correct.

43:40 18 Q. You did, in fact, rule it out clinically  
43:43 19 in this case?

43:44 20 A. Correct.

43:44 21 Q. Okay. I want to go to page, and it looks  
43:49 22 like marked 125 of your expert report for these  
43:56 23 attached articles.

44:16 24 A. Okay.

44:16 25 Q. So I want to draw your attention to this



44:19 1 part right here where it says, "Additional objective  
44:20 2 testing (thermography, triple phase bone scan,  
44:26 3 quantitative pseudomotor axon reflex test or a trial  
44:30 4 sympathetic ganglion block) is not necessary to make  
44:33 5 the diagnosis." Do you agree with that statement?

44:35 6 A. A hundred percent correct, yes.

44:37 7 Q. Okay. And in this particular case, or as  
44:42 8 I think you testified earlier, the triple phase bone  
44:45 9 scan is no longer part of the diagnostic criteria at  
44:47 10 this time?

44:47 11 A. It's not part of the Budapest diagnostic  
44:53 12 criteria; correct.

44:53 13 Q. And the trial sympathetic ganglion block  
44:56 14 also not part of the diagnostic criteria at this  
44:58 15 time?

44:58 16 A. Correct.

44:58 17 Q. Okay. The quantitative pseudomotor axon  
45:08 18 reflex test -- let me go to the other section of the  
45:10 19 literature. Let's go to page 112, in the first  
45:24 20 column. I'll show you where it is when you get  
45:27 21 there. This is the section I'm looking at. Down at  
45:30 22 the bottom paragraph it says these tests are rarely  
45:32 23 used in practice. Do you agree with that statement?

45:34 24 A. Correct. They're very rarely used in  
45:38 25 clinical practice. Correct.

45:39 1 Q. And, Doctor, when you diagnose a patient  
45:53 2 with CRPS Type 1, do you just look at one exam in  
45:59 3 isolation or do you look at the total course of  
46:01 4 treatment to assist in the diagnosis?

46:04 5 A. I try to do the total course of treatment  
46:12 6 to come to a conclusion.

46:15 7 Q. Okay. And then on page 7 of your report,  
46:32 8 you were asked some questions about myofascial  
46:36 9 pain --

46:37 10 A. Uh-huh.

46:37 11 Q. -- by defense counsel. And that defines  
46:42 12 myofascial pain syndrome; is that correct?

46:45 13 A. Correct.

46:45 14 Q. Okay. And you assessed that or considered  
46:53 15 that in your differential diagnosis of Ms. Orr; is  
46:56 16 that correct?

46:56 17 A. Yes.

46:56 18 Q. And were you able to rule that out  
46:59 19 clinically?

46:59 20 A. Yes. Her overall signs and symptoms were  
47:05 21 not consistent with myofascial pain syndrome;  
47:09 22 correct.

47:09 23 MR. KRAEUTER: Okay. All right. I think  
47:11 24 that's all I have.

47:11 25 EXAMINATION

47:12 1 BY MR. MEADER:

47:12 2 Q. Have you ever been disclosed as an expert  
47:15 3 witness?

47:15 4 A. Tell me the definition of expert witness.

47:23 5 Q. Kind of like what we're here doing today  
47:26 6 where you've been retained by either a plaintiff or  
47:28 7 defendant to offer testimony?

47:30 8 A. No. No.

47:31 9 Q. First time?

47:31 10 A. Yes.

47:32 11 Q. Okay.

47:34 12 A. I've had one case, but I assume it was  
47:40 13 more just a lawyer asking me questions with no  
47:42 14 stenographer there. And it was just a catalog of  
47:46 15 questions I answered. So I don't know if you say  
47:49 16 that's an expert witness. I think it's not. It was  
47:52 17 a patient I was treating. It was a half hour meeting  
47:55 18 one time.

47:55 19 Q. Okay. Good deal. One last question. On  
47:58 20 this page 125, I just want to make sure I get  
48:04 21 everything in here. It says additional --

48:08 22 A. Okay.

48:08 23 Q. -- additional objective testing and it  
48:11 24 goes to is not necessary to make the diagnosis but it  
48:15 25 goes on to say, and this wasn't read, but in some

48:17 1 cases may be used to support a clinical diagnosis?

48:21 2 Do you agree with that?

48:22 3 A. Well, not if you go by the formal  
48:29 4 criteria.

48:29 5 Q. By the Budapest criteria?

48:32 6 A. Correct.

48:33 7 Q. I think what it's saying, and I'm just  
48:35 8 trying to summarize here, but the more information  
48:37 9 you have, the better to make a diagnosis? Would you  
48:39 10 agree with that proposition?

48:40 11 MR. KRAEUTER: Object to the form.

48:46 12 A. In general, the answer is yes.

48:53 13 Q. (By Mr. Meader) All right.

48:53 14 A. If you have more information, you can make  
48:58 15 an informed decision.

49:00 16 Q. All right.

49:01 17 A. Yes.

49:03 18 MR. MEADER: Let's get out of here.

49:05 19 MR. KRAEUTER: One last followup.

49:06 20 EXAMINATION

49:06 21 BY MR. KRAEUTER:

49:06 22 Q. Doctor, in this particular case, do you  
49:08 23 believe you had sufficient information based on the  
49:10 24 tests that you had at your disposal and your clinical  
49:14 25 evaluation of Ms. Orr to make the diagnosis that

49:16 1 you've made in this case?

49:17 2 A. Yes.

49:19 3 Q. Okay.

49:19 4 A. I did not see the need for any of these  
49:22 5 additional tests. And I'm familiar with all these  
49:27 6 tests except for your alcohol test that I don't know  
49:29 7 about. But all the other tests I'm familiar with and  
49:35 8 know how they're used, when they're used, and I did  
49:38 9 not feel the need to do any extra additional testing  
49:43 10 to compare what I already had.

49:45 11 MR. MEADER: All right.

49:45 12 MR. KRAEUTER: Okay. Thank you.

13 (Deposition concluded at 8:05 p.m.)

14 (Pursuant to Rule 30(e) of the Federal  
15 Rules of Civil Procedure and/or O.C.G.A. 9-11-30(e),  
16 signature of the witness has been reserved.)

17

18

19

20

21

22

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25

## 1 CERTIFICATE OF COURT REPORTER

2  
3 STATE OF GEORGIA:

4 COUNTY OF CHATHAM:

5  
6 I hereby certify that the foregoing  
7 transcript was reported as stated in the caption and  
8 the questions and answers thereto were reduced to  
9 writing by me; that the foregoing 145 pages represent  
10 a true, correct, and complete transcript of the  
11 evidence given on Monday, June 20, 2016, by the  
12 witness, MARKUS NIEDERWANGER, M.D., who was first  
13 duly sworn by me.14  
15 I certify that I am not disqualified  
16 for a relationship of interest under  
17 O.C.G.A. 9-11-28(c); I am a Georgia Certified Court  
18 Reporter here as an employee of Gilbert & Jones, Inc.  
19 who was contacted by Garrett Meader, Esquire, to  
20 provide court reporting services for the proceedings;  
21 I will not be taking these proceedings under any  
22 contract that is prohibited by O.C.G.A. 15-14-37(a)  
23 and (b) or Article 7.C. of the Rules and Regulations  
24 of the Board; and by the attached disclosure form I  
25 confirm that neither I nor Gilbert & Jones, Inc. are  
a party to a contract prohibited by  
O.C.G.A. 15-14-37(a) and (b) or Article 7.C. of the  
Rules and Regulations of the Board.

This 10th day of July, 2016.

Annette Pacheco, CCR-B-2153

## 1 DISCLOSURE OF NO CONTRACT

2 I, Debbie Gilbert, do hereby disclose  
3 pursuant to Article 10.B of the Rules and Regulations  
4 of the Board of Court Reporting of the Judicial  
5 Council of Georgia that Gilbert & Jones, Inc. was  
6 contacted by Garrett Meader, Esquire, to provide  
7 court reporting services for these proceedings and  
8 there is no contract that is prohibited by O.C.G.A.  
9 15-14-37(a) and (b) or Article 7.C. of the Rules and  
10 Regulations of the Board for the taking of these  
11 proceedings.

12 There is no contract to provide reporting  
13 services between Gilbert & Jones, Inc. or any person  
14 with whom Gilbert & Jones, Inc. has a principal and  
15 agency relationship nor any attorney at law in this  
16 action, party to this action, party having a  
17 financial interest in this action, or agent for an  
18 attorney at law in this action, party to this action,  
19 or party having a financial interest in this action.  
20 Any and all financial arrangements beyond our usual  
21 and customary rates have been disclosed and offered  
22 to all parties.

23 This 10th day of July, 2016.  
24  
25

Debbie Gilbert, FIRM  
REPRESENTATIVE  
Gilbert & Jones, Inc.

1 DEPOSITION OF: MARKUS NIEDERWANGER, M.D./AP

2 I do hereby certify that I have read all  
3 questions propounded to me and all answers given by  
4 me on June 20, 2016, taken before Annette Pacheco,  
5 and that:

- 6 \_\_\_\_\_ 1) There are no changes noted.  
7 \_\_\_\_\_ 2) The following changes are noted:

8 Pursuant to Rule 30(e) of the Federal Rules of  
9 Civil Procedure and/or the Official Code of Georgia  
10 Annotated 9-11-30(e), both of which read in part:  
11 Any changes in form or substance which you desire to  
12 make shall be entered upon the deposition...with a  
13 statement of the reasons given...for making them.  
14 Accordingly, to assist you in effecting corrections,  
15 please use the form below:

16 Page No. \_\_\_\_\_ Line No. \_\_\_\_\_ should read: \_\_\_\_\_

17 Page No. \_\_\_\_\_ Line No. \_\_\_\_\_ should read: \_\_\_\_\_

18 Page No. \_\_\_\_\_ Line No. \_\_\_\_\_ should read: \_\_\_\_\_

19 Page No. \_\_\_\_\_ Line No. \_\_\_\_\_ should read: \_\_\_\_\_

20 Page No. \_\_\_\_\_ Line No. \_\_\_\_\_ should read: \_\_\_\_\_

21 Page No. \_\_\_\_\_ Line No. \_\_\_\_\_ should read: \_\_\_\_\_

22 Page No. \_\_\_\_\_ Line No. \_\_\_\_\_ should read: \_\_\_\_\_

23 Page No. \_\_\_\_\_ Line No. \_\_\_\_\_ should read: \_\_\_\_\_

24 Page No. \_\_\_\_\_ Line No. \_\_\_\_\_ should read: \_\_\_\_\_

25 Page No. \_\_\_\_\_ Line No. \_\_\_\_\_ should read: \_\_\_\_\_



149

1 DEPOSITION OF: MARKUS NIEDERWANGER, M.D./AP

2 Page No. \_\_\_\_\_ Line No. \_\_\_\_\_ should read: \_\_\_\_\_

3 Page No. \_\_\_\_\_ Line No. \_\_\_\_\_ should read: \_\_\_\_\_

4 Page No. \_\_\_\_\_ Line No. \_\_\_\_\_ should read: \_\_\_\_\_

5 Page No. \_\_\_\_\_ Line No. \_\_\_\_\_ should read: \_\_\_\_\_

6 Page No. \_\_\_\_\_ Line No. \_\_\_\_\_ should read: \_\_\_\_\_

7 Page No. \_\_\_\_\_ Line No. \_\_\_\_\_ should read: \_\_\_\_\_

8 Page No. \_\_\_\_\_ Line No. \_\_\_\_\_ should read: \_\_\_\_\_

9 Page No. \_\_\_\_\_ Line No. \_\_\_\_\_ should read: \_\_\_\_\_

10 If supplemental or additional pages are necessary,  
11 please furnish same in typewriting annexed to this  
12 deposition.

13 \_\_\_\_\_  
14 MARKUS NIEDERWANGER, M.D.

15 Sworn to and subscribed before me,  
16 This the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

17 \_\_\_\_\_  
18 Notary Public  
19 My commission expires: \_\_\_\_\_

20 Please forward corrections to:

21 \_\_\_\_\_  
22 \_\_\_\_\_  
23 Gilbert & Jones, Inc.  
24 P. O. Box 14515  
25 Savannah, GA 31416  
(912) 355-0320

GILBERT & JONES

1 DEPOSITION OF: MARKUS NIEDERWANGER, M.D./AP

2 I do hereby certify that I have read all  
3 questions propounded to me and all answers given by  
4 me on June 20, 2016, taken before Annette Pacheco,  
5 and that:

- 6 1) There are no changes noted.  
7 X 2) The following changes are noted:

8 Pursuant to Rule 30(e) of the Federal Rules of  
9 Civil Procedure and/or the Official Code of Georgia  
10 Annotated 9-11-30(e), both of which read in part:  
11 Any changes in form or substance which you desire to  
12 make shall be entered upon the deposition...with a  
13 statement of the reasons given...for making them.  
14 Accordingly, to assist you in effecting corrections,  
15 please use the form below:

16 Page No. 15 Line No. 23 should read: when I headed out  
the door, that's

17 Page No. 16 Line No. 22 should read: delete "otherwise"

18 Page No. 18 Line No. 11 should read: Stuttgart

19 Page No. 21 Line No. 7 should read: saw (linked of "knows")

20 Page No. 23 Line No. 2 should read: characteristics

21 Page No. 24 Line No. 22 should read: necessarily (instead of "as early")

22 Page No. 31 Line No. 24 should read: LASP

23 Page No. 34 Line No. 16 should read: don't want to tell

24 Page No. 37 Line No. 14 should read: sudomotor  
(instead of "pseudomotor")

25 Page No. 37 Line No. 18 should read: - 11 -

} multiple  
times noted  
in transcript

DEPOSITION OF: MARKUS NIEDERWANGER, M.D. /AP

Page No. 39 Line No. 17 should read: sudomotor

Page No. 40 Line No. 9 should read: -11-

Page No. 43 Line No. 11 should read: nerve  
(instead "serve")

Page No. 52 Line No. 8 should read: could  
(instead of "couldn't")

Page No. 62 Line No. 7 should read: yet  
(instead of "that")

Page No. 64 Line No. 13/14 should read: It was thought  
that the sympathetic nerve system is causing RSD,

Page No. 65 Line No. 10 should read: sudomotor

Page No. 66 Line No. 18 should read: 11

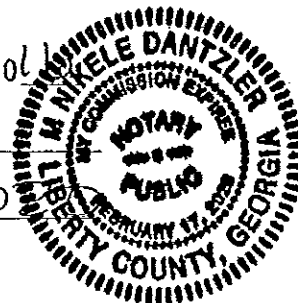
If supplemental or additional pages are necessary,  
please furnish same in typewriting annexed to this  
deposition. See additional sheets attached 149/A  
and 149/B

MARKUS NIEDERWANGER, M.D.

Sworn to and subscribed before me,  
This the 3 day of AUG, 2016

Notary Public

My commission expires: 2-17-20



Please forward corrections to:

Gilbert & Jones, Inc.  
P. O. Box 14515  
Savannah, GA 31416  
(912) 355-0320

148

149/A

## DEPOSITION OF: MARKUS NIEDERWANGER, M.D./AP

I do hereby certify that I have read all questions propounded to me and all answers given by me on June 20, 2016, taken before Annette Pacheco, and that:

- 1) There are no changes noted.  
 X 2) The following changes are noted:

Pursuant to Rule 30(e) of the Federal Rules of Civil Procedure and/or the Official Code of Georgia Annotated 9-11-30(e), both of which read in part: Any changes in form or substance which you desire to make shall be entered upon the deposition...with a statement of the reasons given...for making them. Accordingly, to assist you in effecting corrections, please use the form below:

Page No. 67 Line No. 22 should read: is mediated through the

Page No. 68 Line No. 20 should read: After "okay" here should be my remark "Are you familiar with that?" towards the attorney and in Line 22 Mr. Mender answers "I'm not" and stops "okay go ahead"  
 Page No. 69 Line No. 23/24 should read: "that is possibly the reason that CRPS doesn't have the "sympathetic" in it anymore"

Page No. 78 Line No. 19 should read: joint (instead of "choice")

Page No. 78 Line No. 22 should read: does not account (instead of "is")

Page No. 78 Line No. 19 should read: outside facility

Page No. 83/84 Line No. 3 should read: "(before: she)" and "(after: syndrome)"

Page No. 90 Line No. 24 should read: patent reported

Page No. 105 Line No. 21 should read: remove "and left"

Page No. 119 Line No. 13 should read: earlier than in the past

149/B 148

1 DEPOSITION OF: MARKUS NIEDERWANGER, M.D./AP

2 I do hereby certify that I have read all  
3 questions propounded to me and all answers given by  
4 me on June 20, 2016, taken before Annette Pacheco,  
5 and that:

- 6        1) There are no changes noted.  
7   X   2) The following changes are noted:

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12 make shall be entered upon the deposition...with a  
13 statement of the reasons given...for making them.  
14 Accordingly, to assist you in effecting corrections,  
15 please use the form below:

16 Page No. 120 Line No. 14 should read: difficult  
17 (instead of typical)

18 Page No. 121 Line No. 12 should read: problems (instead of promise)

19 Page No. 121 Line No. 18 should read: reassigned

20 Page No. 125 Line No. 10 should read: And it is not -

21 Page No. 130 Line No. 18 should read: mirror (instead of mural)

22 Page No. 131 Line No. 4 should read: Mirror

23 Page No. 135 Line No. 21/22 should read: delete line 21 & 22  
24 (I don't believe I answered as quoted in line 22)

25 Page No.        Line No.        should read:       

Page No.        Line No.        should read:       

Page No.        Line No.        should read: